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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,157	06/19/2003	Madhavi W. Chandra	CISCP326/6804	5810

22434 7590 03/30/2007
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EXAMINER

PATEL, CHIRAG R

ART UNIT	PAPER NUMBER
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2141

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/600,157

Applicant(s)

CHANDRA ET AL.

Examiner

Chirag R. Patel

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 6, it is unclear to the limitations " wherein the first AAA server is the second AAA server" Claim 3, from which claim 6 depends upon from, cites the second AAA and the first AAA server as separate entities.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 42-43, 45, and 47 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claims 43, 45, and 47, Applicant specifications disclose per [0070], "Examples of machine-readable media include, but are ***not limited to***, magnetic media such as hard disks, floppy disks, and magnetic tape; optical media such as CD-ROM disks; magneto-optical media such as floptical disks; and hardware devices that are

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pecially configured to store and perform program instructions, such as read-only memory devices (ROM) and random access memory (RAM). The invention may also be embodied in a **carrier wave** traveling over an appropriate medium such as airwaves, optical lines, electric lines, etc. Examples of program instructions include both machine code, such as produced by a compiler, and files containing higher level code that may be executed by the computer using an interpreter.” Machine-readable media includes carrier wave which do not fall in a statutory category. Appropriate correction is required.

As per claim 43, a PDSN is not embodied on a hardware, which falls under a statutory category. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-3, 5-10, 12-16, 21-27, 29, 31-37, 39, and 42-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Madour et al. – hereinafter Madour (US 6,970,693).

As per claims 1 and 42-44, Madour discloses in a PDSN, a method of releasing resources, comprising:

sending an access request message to a first AAA server for authentication of a node; (Col 2 lines 20-31; Col 5 line 62 – Col 6 line 24)

receiving an access accept message from the first AAA server; (Col 6 lines 25-61; Fig. 4)

establishing a Mobile IP session as a Foreign Agent for the node when an access accept message is received from the first AAA server; (Col 6 lines 25-61)

storing information associated with the node in resources associated with the PDSN; (Col 4 lines 17-30)

receiving a disconnect request message; and (Fig 5: item 526)

releasing the resources when the disconnect request message is received. (Fig 5: item 534)

As per claim 2, Madour discloses the method as recited in claim 1, wherein the disconnect request message is received from the first AAA server. (Fig. 5: item 526)

As per claim 3, Madour discloses the method as recited in claim 1, wherein the disconnect request message is received from a second AAA server via the first AAA server. (Col 1 lines 31-61)

As per claim 5, Madour discloses the method as recited in claim 1, wherein the resources comprise memory and the information is associated with the Mobile IP session. (Col 5 line 62 – Col 6 line 24)

As per claim 6, Madour discloses the method as recited in claim 3, wherein the first AAA server is the second AAA server. (Col 1 lines 31-61; Figure 1)

As per claim 7, Madour discloses the method as recited in claim 3, wherein the first AAA server is a visited AAA server associated with a foreign network and the second AAA server is a home AAA server associated with a home network of the node. (Col 1 lines 31-61; Figure 1)

As per claims 8 and 36, Madour discloses The method as recited in claim 3, wherein the first AAA server is a visited AAA server associated with a foreign network and the second AAA server is the visited AAA server associated with the foreign network. (Col 1 lines 31-61)

As per claim 9, Madour discloses the method as recited in claim 3, wherein the access request message and access reply message are RADIUS messages, and the first and second AAA servers are RADIUS servers.
(Col 1 line 60 – Col 2 line 9)

As per claims 10, 27, and 37, Madour discloses the method as recited in claim 1, wherein the disconnect request message comprises a source PDSN identifier identifying the PDSN, a username identifier identifying a user associated with the Mobile IP session, and a session identifier identifying a session associated with the user to be terminated by the PDSN. (Col 6 lines 25-61)

As per claim 12, Madour discloses the method as recited in claim 3, wherein the disconnect request message is triggered by a second access request message sent to the second AAA server by a second PDSN to which the node has roamed. (Col 1 lines 31-61)

As per claim 13, Madour discloses The method as recited in claim 12, wherein the disconnect request message is sent after an access accept message is sent by the second AAA server to the first AAA server. (Col 1 lines 31-61)

As per claim 14, Madour discloses the method as recited in claim 12, wherein the access request message and the second access request message each comprise a RADIUS access request message including a username identifier identifying a user associated with the Mobile IP session, a session identifier identifying a session associated with the user, and a PDSN identifier identifying the PDSN. (Col 1 line 60 – Col 2 line 9)

As per claims 15, 29, and 39, Madour discloses the method as recited in claim 1, further comprising: sending a disconnect acknowledgement message indicating that the PDSN has successfully disconnected the user. (Col 6 line 62 – Col 7 line 12; Figure 5: item 536)

As per claim 16, Madour discloses The method as recited in claim 15, wherein the disconnect acknowledgement message is sent to the first AAA server. (Col 6 line 62 – Col 7 line 12; Figure 5: item 536, happens after Figure 5: item 534)

As per claims 21, 31, and 45-48, Madour discloses in a AAA server, a method of initiating the release of resources in a first PDSN, comprising: receiving an access request message from a second PDSN, the access request message including a username identifier identifying a user, a session identifier

identifying a session associated with the user, and a PDSN identifier identifying the first PDSN; (Col 5 line 62 – Col 6 line 64)

sending an access accept message to the second PDSN in response to the access request message; (Col 6 lines 25-61; Figure 4)

and sending a disconnect request message to the first PDSN indicating a request to release resources associated with the session. (Fig. 5: item 526)

As per claims 22 and 32, Madour discloses the method as recited in claim 21, wherein the disconnect request message further indicates that the resources associated with the session are no longer needed. (Fig. 5: item 534)

As per claims 23 and 33, Madour discloses the method as recited in claim 21, wherein the disconnect request message further indicates that a node associated with the user has moved. (Col 1 lines 31-61)

As per claims 24 and 34, Madour discloses the method as recited in claim 23, wherein the node is a mobile node. (Col 4 lines 5-16)

As per claims 25 and 35, Madour discloses the method as recited in claim 21, wherein the disconnect request message requests that the first PDSN disconnect the user for the session identified by the session identifier. (Col 6 lines 25-61)

As per claim 26, Madour discloses the method as recited in claim 21, wherein the AAA server is a home AAA server associated with a home network of the user. (Col 1 lines 31-61)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 11, 28, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madour (US 6,970,693) in view of Grabelsky et al. – hereinafter Grabelsky (US 2004/0003046)

As per claims 4, 11, 28, and 38, Madour discloses the method as recited in claim 1. Madour fails to disclose wherein the resources comprise memory and the information comprises PPP information associated with a PPP session. Grabelsky discloses wherein the resources comprise memory and the information comprises PPP information associated with a PPP session. ([0093]) At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to disclose wherein the resources comprise memory and the information comprises PPP

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information associated with a PPP session in the disclosure of Madour. The motivation for doing do would have been to make use of typical wireless infrastructure components. ([0083])

Claims 17, 30, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madour (US 6,970,693) in view of Shaked et al. – hereinafter Shaked (US 2002/0007411).

As per claims 17, 30, and 40, Madour discloses the method as recited in claim 3. Madour fails to disclose sending a disconnect acknowledgement message to the second AAA server, the disconnect acknowledgement message indicating that the PDSN has successfully disconnected the user. Shaked discloses sending a disconnect acknowledgement message to the second AAA server, the disconnect acknowledgement message indicating that the PDSN has successfully disconnected the user. ([0092]) At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to send a disconnect acknowledgement message to the second AAA server, the disconnect acknowledgement message indicating that the PDSN has successfully disconnected the user. in the disclosure of Madour. The motivation for doing do would have been to provide notification of connect and disconnect events that may be issued. ([0091])

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Claims 18-20, and 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Madour (US 6,970,693) in view of Moller et al. – hereinafter Moller (US 2003/0028598)

As per claims 18, 20, and 41, Madour discloses the method as recited in claim 1. Madour fails to disclose sending a disconnect non-acknowledgement message indicating that the PDSN is unable to disconnect the user. Moller discloses sending a disconnect non-acknowledgement message indicating that the PDSN is unable to disconnect the user. ([0090]) At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to sending a disconnect non-acknowledgement message in the disclosure of Madour ([0090]. The motivation for doing do would have been to include an error code. ([0091])

As per claim 19, Madour / Moller disclose the method of claim 18. Madour fails to disclose non-acknowledgement message is sent to the first AAA server. Moller discloses sending a non-acknowledgement message ([0090]. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to non-acknowledgement message to the first AAA server in the disclosure of Madour. The motivation for doing do would have been to include an error code. ([0091])

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chirag R. Patel whose telephone number is (571)272-

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7966. The examiner can normally be reached on Monday to Friday from 7:30AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia, can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pairedirect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).


RUPAL DHARIA
SUPERVISORY PATENT EXAMINER